

RESULT 2
US-09-357-357-15
Sequence 15, Application US/0957357
Patient No. 6271018
; GENERAL INFORMATION:
; APPLICANT: Alan Brash
; APPLICANT: Nathalie Tiet
; TITLE OF INVENTION: MUSKOLAN (CUCUMIS MELO) HYDROPEROXIDE
; TITLE OF INVENTION: LIASE AND USES THEREOF
; FILE REFERENCE: 06027...002
; CURRENT APPLICATION NUMBER: US/091537, 357
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO: 15
LENGTH: 487
TYPE: PRT
ORGANISM: Cucumis melo
NAME/KEY: VARIANT
LOCATION: (1..(487))
OTHER INFORMATION: Kaa = Any Amino Acid
NAME/KEY: misc_feature
ACCSSION: (0)..(10)
, OTHER INFORMATION: Accession No. 6271018 AF081955

Query Match Similarity 99.0%; Score 2463.5; DB 3; Length 487;
Best Local Similarity 99.2%; Score 2463.5; DB 3; Length 487;
Matches 478; Conservative 1; Mismatches 2; Indels 1; Gaps 1;

Qy 1 MATPSSSPSPPLKPKPGEYRPLPKIKDVPYFQDRDFF-RKTKNSNVRN 59
Db 1 MATPSSSPSPPLKPKPGEYRPLPKIKDVPYFQDRDFFRKRINKNSNVRN 60
Qy 60 MPRGPFSSPSRVVVLQDASLSPPLDVKKEKNTDGTYSPLSPGNTCTAQLPS 119
Db 61 MPRGPFSSPSRVVVLQDASLSPPLDVKKEKNTDGTYSPLSPGNTCTAQLPS 120
Qy 120 ETERHSVRLRFLSPFLASHDRFLPLRSASLSPMVKLDRKESKKKADNPSNSP 179
Db 121 ETERHSVRLRFLSPFLASHDRFLPLRSASLSPMVKLDRKESKKKADNPSNSP 180
Qy 180 YFRLFLSUGPDKAKGCPEDMIVQPLAASPLGKPKPSFEDWVITLQPP 239
Db 181 YFRLFLSUGPDKAKGCPEDMIVQPLAASPLGKPKPSFEDWVITLQPP 240
Qy 240 VSGGRKQIYAFSSSGFLDEAKGCIKREKAHNUVAFQPMNGMKTQPLKAW 299
Db 241 VSGGRKQIYAFSSSGFLDEAKGCIKREKAHNUVAFQPMNGMKTQPLKAW 300
Qy 300 GTAGDDELRKLAEVTTWKGEGLFLSPLEMMLASVYVAKLIRPPYQKANED 359
Db 301 GTAGDDELRKLAEVTTWKGEGLFLSPLEMMLASVYVAKLIRPPYQKANED 360
Qy 360 IVIOSHSDSPKIKGKETGQCPATDKPKPKSEKPGDPRVGEBSKLUKYVNE 419
Db 361 IVIOSHSDSPKIKGKETGQCPATDKPKPKSEKPGDPRVGEBSKLUKYVNE 420
Qy 420 REVERTENKQPGVWVGLIGRIMVWPPRPTTVEADLPLPANEKSISTRAD 479
Db 421 REVERTENKQPGVWVGLIGRIMVWPPRPTTVEADLPLPANEKSISTRAD 480

RESULT 3
US-08-833-553-2
Sequence 2, Application US/0883353C
Patient No. 6018034
; GENERAL INFORMATION:
; APPLICANT: Larch, Konrad
; APPLICANT: Larch, Konrad
; APPLICANT: Muhein, Andreas
; APPLICANT: Sike, Natasha
TITLE OF INVENTION: HYDROPEROXIDE LYASES
FILE REFERENCE: HYDROPEROXIDE LYASES
CURRENT APPLICATION NUMBER: US/081833, 553C
CURRENT FILING DATE: 1997-04-07
NUMBER OF SEQ ID NOS: 11
SOFTWAR: Patentin Ver. 2.0
SEQ ID NO: 2
LENGTH: 433
TYPE: PRT
ORGANISM: Musa sp.
US-08-833-553-2

Query Match Similarity 38.8%; Score 965.5; DB 3; Length 483;
Best Local Similarity 42.9%; Pred. No. 6.1e+90; Mismatches 180; Indels 17; Gaps 10;
Matches 204; Conservative 10; Mismatches 180; Indels 17; Gaps 10;

Qy 11 LPKPKPGEYRPLPKIKDVPYFQDRDFFRSPKTKNSNVRNAMPD-P-FSS 68
Db 16 LPKPKPGEYRPLPKIKDVPYFQDRDFFRSPKTKNSNVRNAMPD-P-FSS 75
Qy 69 DSVWVVLQDASLSPPLDVKKEKNTDGTYSPLSPGNTCTAQLPS 128
Db 76 DPKVWVVLQDASLSPPLDVKKEKNTDGTYSPLSPGNTCTAQLPS 135
Qy 129 LPFSPASRHSRHPKPFSSSENPYKPLKSKCKLADPPNSDPSYFRRF--S 186
Db 136 FCHLIRGAKTNTWSPNUSNQMLATIGIAGKAGPFLKCI--PAPCNSLGA 194
Qy 187 DGPSPSKLAKGPDMQWUQPLAISIQLPKPSFVFDQWITLQPPVPSKGRK 246
Db 195 DPKVWVVLQDASLSPPLDVKKEKNTDGTYSPLSPGNTCTAQLPS 252
Qy 247 LYPAVYSSSPDPE KQDIEKACHNPLLAGNANGKMLPFTLKVNGPAGED 305
Db 253 LYPAVYSSSPDPE KQDIEKACHNPLLAGNANGKMLPFTLKVNGPAGED 312
Qy 306 LHKKLAKBVRTPYKREGGL--TESALRKSILKSVVAFRTEPVPPYQKAKEDIVQ 363
Db 313 LTKKQDVSVRVVKSGKGEPSFTREMELRSTVVEVLRKUNPVQPLGRADFTLN 372
Qy 364 SHDSKTKKGEPSFTRCPATDKPKPKPSDSEKPGDPRVGEBSKLUKYVNE 423
Db 373 SHDSKTKKGEPSFTRCPATDKPKPKPSDSEKPGDPRVGEBSKLUKYVNE 431
Qy 424 EPRAENKCPKSKLWVGLIGRIMVWPPRPTTVEADLPLPANEKSISTRAD 479
Db 432 TPPIANKOQAKOIVVETACLUMAEFIRIDPV--CAD---DASVTKLDRARE 481

RESULT 4
US-09-418-222-2
; Sequence 2, Application US/09418222
; Patient No. 6238898
; GENERAL INFORMATION:
; APPLICANT: Haasler, Alex
; APPLICANT: Larch, Konrad
; APPLICANT: Muhein, Andreas
; APPLICANT: Sike, Natasha
TITLE OF INVENTION: HYDROPEROXIDE LYASES

FILE REFERENCE: Hydroperoxide Lyases
 CURRENT APPLICATION NUMBER: US/09/418, 222
 CURRENT FILING DATE: 1999-01-04
 BAILIERS APPLICATION NUMBER: US/09/833, 553
 BAILIERS FILING DATE: 1997-04-07
 NUMBER OF SEQ ID NOS: 11
 SOFTWARE: PatentIn Ver. 2.0
 SEQ ID NO: 2
 LENGTH: 483
 TYPE: PRT
 ORGANISM: Musa sp.
 US-09-418-222-2

Query Match 38.8%; Score 965.5; DB 3; Length 483;
 Best Local Similarity 42.9%; Pred. No. 6.1e-90; Mismatches 180; Indels 17; Gaps 10;
 Matches 204; Conservative 75; Mismatches 180; Indels 17; Gaps 10;

Qy 11 LPLKPKCGCGSPFGLKIRKMYTVFGQADDEPFSRITKONSTYFRANMPG-P-PISS 68
 Db 16 LPLKPKPGCGSPFGLKIRKMYTVFGQADDEPFSRITKONSTYFRANMPG-P-PISS 75
 Qy 69 DSRVWVLLDASPLIPLDFTAKKEKNTLDTGTPSISFTGMRTCAULPSPTEHSLUR 128
 Db 76 DPLRVVTDCTSPLAFLDVEKONLIDGMPYSPGTYRQVYVLPSPDARHKS 135

Qy 129 LPLKPKCGCGSPFGLKIRKMYTVFGQADDEPFSRITKONSTYFRANMPG-P-PISS 186
 Db 136 PFLSLPLASRHDPLPFLRSLSMFWKLDLKEKCDNNSMADFVERLL-S 186

Qy 187 DPLPDKLAKLAEGRGMFDLIVQFLQPLASTICLQPKSVEVDLHITPAPPPVSGRK 246
 Db 195 DPLSPVPGKMPVWDLQFLDQFLQPLTKG-AIOPLEBILHSLPLPFLPSDVRK 252

Qy 247 LPLKPKCGCGSPFGLKIRKMYTVFGQADDEPFSRITKONSTYFRANMPG-P-PISS 305
 Db 253 LIEFVERKOGEVVRPALEENBLGKHNAINLFLGFLFENRFGSPVPTLITG 312

Qy 306 LPLKPKCGEVRTVKEGGL-TPSALKOMSLKSVTFLRATLPPRPGKAKDVIQ 363
 Db 313 LBEKUKOEVREMKERGERKESPTVREBALKMSTTTEFLRANPVELOGLKEDPTIN 372

Qy 364 SUDSSPKKKGITGKOPATKPKDSEKVEVGRGVBEGKLUVTVWSRERTV 423
 Db 373 SHDAAFKVKGEGLCQVPLMDPAPDFTPAPERNG-SKEELKVVWSNGPFTG 431

Qy 424 EPPLANKOCPKQVNLUGRMVVERFLYTFVNEVADLPGAVPKPSLRTAD 479
 Db 432 TPPLANKOCAKQVVFATCLMABSPFVSEPV-CAD---DAIVTKLDRABE 481

RESULT 6
 US-09-078-173A-26
 Sequence 26 Application US/09078173A
 Patent No. 6200754
 GENERAL INFORMATION
 APPLICANT: Ian M. Whitehead
 APPLICANT: Alan S. Sharpenko
 APPLICANT: Duncan Gaskins
 APPLICANT: Alan Brahm
 APPLICANT: Nathalie Tiet
 TITLE OF INVENTION: GUAVA (PSIDIUM GUAVA) 13-HYDROPEROXIDE
 TITLE OF INVENTION: LYASE AND USES THEREOF
 FILE REFERENCE: 06027.0001
 CURRENT APPLICATION NUMBER: US/09/078, 173A
 CURRENT FILING DATE: 1998-05-13
 NUMBER OF SEQ ID NOS: 27
 SOFTWARE: FastSEQ for Windows Version 3.0
 SEQ ID NO: 26
 LENGTH: 483
 TYPE: PRT
 ORGANISM: Musa sp. (banana)
 US-09-078-173A-26

Query Match 38.6%; Score 961.5; DB 3; Length 483;
 Best Local Similarity 42.9%; Pred. No. 1.6e-89; Mismatches 181; Indels 17; Gaps 10;
 Matches 200; Conservative 74; Mismatches 181; Indels 17; Gaps 10;

Qy 11 LPLKPKCGCGSPFGLKIRKMYTVFGQADDEPFSRITKONSTYFRANMPG-P-PISS 68
 Db 16 LPLKPKPGCGSPFGLKIRKMYTVFGQADDEPFSRITKONSTYFRANMPG-P-PISS 75
 Qy 69 DSRVWVLLDASPLIPLDFTAKKEKNTLDTGTPSISFTGMRTCAULPSPTEHSLUR 128
 Db 76 DPLRVVTDCTSPLAFLDVEKONLIDGMPYSPGTYRQVYVLPSPDARHKS 135

Qy 129 LPLKPKCGCGSPFGLKIRKMYTVFGQADDEPFSRITKONSTYFRANMPG-P-PISS 186

Query Match 38.8%; Score 955.7; DB 3; Length 483;
 Best Local Similarity 42.9%; Pred. No. 6.1e-10; Mismatches 180; Indels 17; Gaps 10;
 Matches 204; Conservative 75; Mismatches 180; Indels 17; Gaps 10;

APPLICANT: Alan Brahn	Natalie Tjet
TITLE OF INVENTION: MUSKOMIS (CUCUMIS MELO) HYDROPEROXIDE	
FILE REFERENCE: 06027-0002	Best Local Similarity 40.1%; Pred. No. 1.5e-85; Index 19; Gaps 7; Mismatches 189; Conservative 92; Mismatches 171; Index 19; Gaps 7;
CURRENT APPLICATION NUMBER: US/9/5/37,357	
CURRENT FILING DATE: 2000-03-29	
NUMBER OF SEQ ID NOS: 56	
SOFTWARE: FASTSEQ for Windows Version 4.0	
SEQ ID NO: 32	
LENGTH: 480	
TYPE: PRT	
ORGANISM: Capsicum annuum (green pepper)	
US-09-537-357-32	
Query Match 37.1%; Score 922.5; DB 3; Length 480;	
Best Local Similarity 40.1%; Pred. No. 1.5e-85; Index 19; Gaps 7; Mismatches 189; Conservative 92; Mismatches 171; Index 19; Gaps 7;	
Matches 189; Conservative 92; Mismatches 171; Index 19; Gaps 7;	
13 ATIPS---LIVRKPSYSPGFLPDKPDKVWYKQDQDPSKVKSTVTPV	QY
2 ATPSSSSPLPKRIGKPGPGRGPKRKYVPPGRGRERTRKNTSTVTPN	Db
62 P-GPPISSDSSVWVVLDSPLPFLPTAKWVYKUWYKQDQDPSKVKSTVTP	QY
69 PCPPEPLGVNNVWVAVLWVPSFALPDMVERKAMVGDPMVSYVIGDVRVATDTS	Db
102 ETSHSLKRLPLASRDRTRFLPFLSSSSEPKLSSKCKKDFNS-DF	QY
129 EPKTKLKFPSDILKRSKSTKNTWVPLVPLRDTFEGTFSDFSKSKASLPAQKPFN	Db
179 DVYRFLISGPTDKLAKSPTKWTPLKBLDTTFTPSDFSKSKASLPAQKPFN	QY
189 PSFLPLKAPSASPTINSGPAPVADMAIQLPTVSG--MQLBETVPHSPTR	Db
239 PVSGTRKLYAPVSSGSSDPAKQ-GIDREKACHNVLPLAGRAGKVMVPPR	QY
246 LYRSGTEKIKVAKSEKELTRADTDFLTSOBAHNLPLTGPNGCPTTPTL	Db
299 WTPAGDPLKAKLAEFTRVKEEG---LIPSALKSLKSLKSYKALRIPPPQ	QY
305 --GLUGKSGKANMOKAKKVKERKGTMQNLPSSEVEMVQSYVSLRPPQ	Db
353 YKAKAKDVIQOSHSSKKGSTTFGYOPAKDKPFLPSKHPWDPFVGEGKU	QY
363 YAKAKPUMSHSIVIEGLGCGPVMKDKFVDFPDKFVKMERTKVKELLN	Db
413 YWVWSNERETVPTAKQPKGKNUVGRIMVYVPAKJPTPTVVEDL	QY
423 YLWNSNQPGSPTESKKQAKDVTASLIVIYVOKDSDVSSGSL	Db
RESULT 10	
US-0-042-931-25	
Sequence 25; Application US/10042991	
Patent No. 6780621	
GENERAL INFORMATION:	
APPLICANT: Ian M. Whitehead	
APPLICANT: Alan S. Slavatenko	
APPLICANT: Duncan Gaskin	
APPLICANT: Alan Brahn	
APPLICANT: Natalie Tjet	
TITLE OF INVENTION: GUAVA (PSIDIUM GUAJAVA) 13-HYDROPEROXIDE	
FILE REFERENCE: 06027-0001	
CURRENT APPLICATION NUMBER: US/9/078,173A	
CURRENT FILING DATE: 1998-05-13	
NUMBER OF SEQ ID NOS: 27	
SOFTWARE: FASTSEQ for Windows Version 3.0	
SEQ ID NO: 2	
LENGTH: 476	
TYPE: PRT	
ORGANISM: Psidium Guajava (guava)	
US-09-078-173A-2	
Query Match 36.2%; Score 901; DB 3; Length 476;	
Best Local Similarity 41.9%; Pred. No. 2.4e-83; Index 32; Gaps 12; Mismatches 198; Conservative 41.9%; Pred. No. 2.4e-83; Index 32; Gaps 12; Mismatches 163; Index 32; Gaps 12;	
Matches 198; Conservative 41.9%; Pred. No. 2.4e-83; Index 32; Gaps 12; Mismatches 163; Index 32; Gaps 12;	
1 MATPSS-SP-BLUPKIGKPGPGRGPKRKYVPPGRGRERTRKNTSTVTPN	QY
9 LSPFSPRPTVWVTKCSTVTPVPLAIPSONLWVYFPGPTEPFRKIKYKSTVTPN	Db
60 MDP-GPEIIS-DARVWVJALSPFLPTAKWVYKUWYKQDQDPSKVKSTVTPN	QY

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GenCore version 5.1.6

Om protein - protein search, using sw model

Run on: October 5, 2005, 07:00:33 ; Search time 168 Seconds (without alignments)

Scoring table: BLOSUM62

GapOp: 10.0 , Gapext: 0.5

Post-processing: Minimum Match 0%

Searched: 1846076 seqs, 41516000 residues

Total number of hits satisfying chosen parameters: 1846076

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Listing first 45 summaries

Database : Published Applications PA..

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2: /cgn2_6/protdata/1/pubpa/PCT_NEW_PUB_pep.*

3: /cgn2_6/protdata/1/pubpa/US06_PURCOMB_pep.*

4: /cgn2_6/protdata/1/pubpa/US07_NEW_PUB_pep.*

5: /cgn2_6/protdata/1/pubpa/US08_PUB_pep.*

6: /cgn2_6/protdata/1/pubpa/US08_PURCOMB_pep.*

7: /cgn2_6/protdata/1/pubpa/US08_PUB_pep.*

8: /cgn2_6/protdata/1/pubpa/US09_PURCOMB_pep.*

9: /cgn2_6/protdata/1/pubpa/US09_PUBCOMB_pep.*

10: /cgn2_6/protdata/1/pubpa/US09_PUBCOMB_pep.*

11: /cgn2_6/protdata/1/pubpa/US09_PUBCOMB_pep.*

12: /cgn2_6/protdata/1/pubpa/US09_NEW_PUB_pep.*

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18: /cgn2_6/protdata/1/pubpa/US09_PUBCOMB_pep.*

19: /cgn2_6/protdata/1/pubpa/US10_PUBCOMB_pep.*

20: /cgn2_6/protdata/1/pubpa/US11_NEW_PUB_pep.*

21: /cgn2_6/protdata/1/pubpa/US09_PUBCOMB_pep.*

22: /cgn2_6/protdata/1/pubpa/US09_PUBCOMB_pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match	Length	DB ID	Description
1	2488	98.8	481	9	US-09-884-260A-7	Sequence 7, Appl
2	2483	99.0	481	15	US-09-884-260A-7	Sequence 9, Appl
3	2463.5	99.0	487	15	US-09-884-260A-5	Sequence 15, Appl
4	2319	97.8	478	15	US-10-434-901-10	Sequence 10, Appl
5	1613.5	60.9	483	15	US-10-468-901-15	Sequence 156, Appl
6	1560	62.7	532	15	US-10-424-599-203458	Sequence 6, Appl
7	1560	62.7	532	15	US-10-424-599-203458	Sequence 203458, Appl
8	1560	62.2	492	15	US-10-424-599-203458	Sequence 47665, Appl
9	1560	62.2	492	15	US-10-424-599-203458	Sequence 58926, Appl
10	1555.5	62.1	478	15	US-10-424-599-203458	Sequence 15690, Appl
11	1555.5	62.1	478	15	US-10-424-599-203458	Sequence 15690, Appl

RESULT 1

; Sequence 7, Application US/09884260A

; Sequence 7, Application US/09884260A

GENERAL INFORMATION:

APPLICANT: Nathalie Tijet

PATENT HOLDER: Compugen Ltd.

TITLE OF INVENTION: MUSKONON (CUCUMIS MELO) HYDROPEROXIDE

FILE REFERENCE: 0027-0000242

CURRENT APPLICATION NUMBER: US/09/884-260A

CURRENT FILING DATE: 2001-05-19, 357, 357

PRIOR FILING DATE: 2000-05-23

NUMBER OF SEQ ID NOS: 56

SOFTWARE: FASTSEQ for Windows Version 4.0

SEQ ID LENGTH: 481

TYPE: PRT

ORGANISM: Cucumis melo

US-09-884-260A-7

Query Match Similarity: 100.0%; Score: 2488; DB: 9; length: 481; Best Local Similarity: 100.0%; Pred. No: 1.1e-33; Nmatches: 481; Conservative: 0; Mismatches: 0; Indels: 0; Gaps: 0;

Qy

1 MATTSSSPPLPKPLPKPGVPPPLPKIMQDIFYQYQDRPFSSRITNTNTYFRAM 60

Db

1 MATTSSSPPLPKPLPKPGVPPPLPKIMQDIFYQYQDRPFSSRITNTNTYFRAM 60

Qy

61 PGCPPTSSPDRVNUUDLSPITPFRMVKRVEVILGWTMSLFTPTNTCTYADSE 120

Qy 121 TEHISVURKLFSLASRHSRHTPUPRSSLSEMFWKLDSKLSKKIADPNSIDSMSDY 180
 Db 121 TEHISVURKLFSLASRHSRHTPUPRSSLSEMFWKLDSKLSKKIADPNSIDSMSDY 180
 Qy 181 VFLUJSDOTPSKLAEGHGFMDMLVOLAPLASIGPKISVEDLWHTTPPPV 240
 Db 181 VFLUJSDOTPSKLAEGHGFMDMLVOLAPLASIGPKISVEDLWHTTPPPV 240
 Qy 241 KSGYRKLYEAFYSSPSSFLDABKOGJDRKACHNVLFLAGNAGMKLPLFTLKV 300
 Db 241 KSGYRKLYEAFYSSPSSFLDABKOGJDRKACHNVLFLAGNAGMKLPLFTLKV 300
 Qy 301 TAGEDLURKLAEVRTYREGGLTSALRKNSLAKVYFALRTEPVPFOGAKDI 360
 Db 301 TAGEDLURKLAEVRTYREGGLTSALRKNSLAKVYFALRTEPVPFOGAKDI 360
 Qy 361 VIOSIDSSPKIKKGETIYOPPAPDKPFLDKRKEVGRDGEBSKLUKVTWNSR 420
 Db 361 VIOSIDSSPKIKKGETIYOPPAPDKPFLDKRKEVGRDGEBSKLUKVTWNSR 420
 Qy 421 ETVERPAENKOCGKOLVULGRMMWVPERAPYMTFVWADLPGAPVFKSLTRADM 480
 Db 421 ETVERPAENKOCGKOLVULGRMMWVPERAPYMTFVWADLPGAPVFKSLTRADM 480
 Qy 481 V 481
 Db 481 V 481

RESULT 2
 US-10-434-991-9
 ; Sequence 9, Application US/0434991
 ; Publication No. US2004010824A1
 ; GENERAL INFORMATION:
 ; APPLICANT: McCollig, Brian
 ; TITLE OF INVENTION: HYDROPEROXIDE LYASES
 ; FILE REFERENCE: B1534USA
 ; CURRENT APPLICATION NUMBER: US/0434-991
 ; CURRENT FILING DATE: 2003-05-09
 ; NUMBER OF SEQ ID NOS: 14
 ; SOFTWARE: Microsoft Word Version 7.0A
 ; SEQ ID NO: 9
 ; LENGTH: 491
 ; TYPE: PRT
 ; ORGANISM: Cucumis melo

Query Match 99.8%; Score 2483; DB 15; Length 491;
 Best Local Similarity 99.8%; Score 2483; DB 15;
 Matches 490; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 Qy 1 MATPSSSPERPKPAPCGKPFPLPFLKDRWDFYQGDRPFSRKTNSITFRAM 60
 Db 1 MATPSSSPERPKPAPCGKPFPLPFLKDRWDFYQGDRPFSRKTNSITFRAM 60
 Qy 61 PROPISSSSVWVULDASPLPDKVNRVNLGTMSPSISPTNRTAIDSE 120
 Db 61 PROPISSSSVWVULDASPLPDKVNRVNLGTMSPSISPTNRTAIDSE 120
 Qy 61 PEPPFSSDVKVWVULDASPLPDKVNRVNLGTMSPSISPTNRTAIDSE 120
 Db 61 PEPPFSSDVKVWVULDASPLPDKVNRVNLGTMSPSISPTNRTAIDSE 120
 Qy 121 TEHISVURKLFSLASRHSRHTPUPRSSLSEMFWKLDSKLSKKIADPNSIDSMSDY 180
 Db 121 TEHISVURKLFSLASRHSRHTPUPRSSLSEMFWKLDSKLSKKIADPNSIDSMSDY 180
 Qy 181 VFLUJSDOTPSKLAEGHGFMDMLVOLAPLASIGPKISVEDLWHTTPPPV 240
 Db 181 VFLUJSDOTPSKLAEGHGFMDMLVOLAPLASIGPKISVEDLWHTTPPPV 240
 Qy 241 KSGYRKLYEAFYSSPSSFLDABKOGJDRKACHNVLFLAGNAGMKLPLFTLKV 300
 Db 241 KSGYRKLYEAFYSSPSSFLDABKOGJDRKACHNVLFLAGNAGMKLPLFTLKV 300
 Qy 301 TAGEDLURKLAEVRTYREGGLTSALRKNSLAKVYFALRTEPVPFOGAKDI 360
 Db 301 TAGEDLURKLAEVRTYREGGLTSALRKNSLAKVYFALRTEPVPFOGAKDI 360
 Qy 361 VIOSIDSSPKIKKGETIYOPPAPDKPFLDKRKEVGRDGEBSKLUKVTWNSR 420
 Db 361 VIOSIDSSPKIKKGETIYOPPAPDKPFLDKRKEVGRDGEBSKLUKVTWNSR 420
 Qy 421 ETVERPAENKOCGKOLVULGRMMWVPERAPYMTFVWADLPGAPVFKSLTRADM 480
 Db 421 ETVERPAENKOCGKOLVULGRMMWVPERAPYMTFVWADLPGAPVFKSLTRADM 480
 Qy 481 V 481
 Db 481 V 481

RESULT 3
 US-9-884-260A-15
 ; Sequence 15, Application US/09884260A
 ; Patient No. US20020098570A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Ann Brash
 ; TITLE OF INVENTION: MUSKRON (CUCUMIS MELO) HYDROPEROXIDE
 ; CURRENT APPLICATION NUMBER: US/09-884-260A
 ; CURRENT FILING DATE: 2001-06-19
 ; PRIORITY APPLICATION NUMBER: US/09-537,357
 ; PRIORITY FILING DATE: 2000-03-29
 ; NUMBER OF SEQ ID NOS: 56
 ; SOFTWARE: PassBio for Windows Version 4.0
 ; SEQ ID NO: 15
 ; LENGTH: 487
 ; TYPE: PRT
 ; ORGANISM: Cucumis melo
 ; FEATURES:
 ; NAME/KEY: VARIANT
 ; LOCATION: 11..(87)
 ; OTHER INFORMATION: Xaa = Any Amino Acid
 ; NAME/KEY: misc feature
 ; LOCATION: (0)..(0)
 ; OTHER INFORMATION: Accession No. US20020098570A1 APP01955
 ; US-09-884-260A-15
 Query Match 99.9%; Score 2463.5; DB 9; Length 487;
 Matches 478; Conservative 2; Mismatches 2; Indels 1; Gaps 1;
 Qy 1 MATPSSSPERPKPAPCGKPFPLPFLKDRWDFYQGDRPFSRKTNSITFRAM 59
 Db 1 MATPSSSPERPKPAPCGKPFPLPFLKDRWDFYQGDRPFSRKTNSITFRAM 60
 Qy 60 MPGPPISSDRVVWVULDASPLPDKVNRVNLGTMSPSISPTNRTAIDSE 119
 Db 61 MPGPPISSDRVVWVULDASPLPDKVNRVNLGTMSPSISPTNRTAIDSE 120
 Qy 120 TEHISVURKLFSLASRHSRHTPUPRSSLSEMFWKLDSKLSKKIADPNSIDSMSDY 179
 Db 121 TEHISVURKLFSLASRHSRHTPUPRSSLSEMFWKLDSKLSKKIADPNSIDSMSDY 180
 Qy 180 VFLUJSDOTPSKLAEGHGFMDMLVOLAPLASIGPKISVEDLWHTTPPPV 239
 Db 181 VFLUJSDOTPSKLAEGHGFMDMLVOLAPLASIGPKISVEDLWHTTPPPV 240
 Qy 240 KSGYRKLYEAFYSSPSSFLDABKOGJDRKACHNVLFLAGNAGMKLPLFTLKV 299
 Db 241 VSGYRKLYEAFYSSPSSFLDABKOGJDRKACHNVLFLAGNAGMKLPLFTLKV 300
 Qy 300 CTGEGDLURKLAEVRTYREGGLTSALRKNSLAKVYFALRTEPVPFOGAKDI 359
 Db 301 GRGEGDLURKLAEVRTYREGGLTSALRKNSLAKVYFALRTEPVPFOGAKDI 360
 Qy 360 IVIOSIDSSPKIKKGETIYOPPAPDKPFLDKRKEVGRDGEBSKLUKVTWNSR 419

Wed Oct 3 16:02:44 2003

RESULT 4
US-10-434-991-10
Sequence 10, Application US/10434991
Publication No. US2010010822A1
GENERAL INFORMATION:
APPLICANT: McCONIGLE, Brian
TITLE OF INVENTION: HYDROPEROXIDE LYASES
PCT REFERENCE: PCT/US10/434,991
CURRENT APPLICATION NUMBER: US10/434,991
CURRENT FILING DATE: 2003-05-09
NUMBER OF SEQ ID NOS: 14
SOFTWARE: Microsoft Word Version 7.0A
SEQ ID NO 10
LENGTH: 478
TYPE: PRT
ORGANISM: Cucumis sativus
-10-434-991-10

Query Match 94.0%; Score 2339; DB 15; Length 478;
Best Local Similarity 93.9%; Pred. No. 3.9e-119; Matches 305; Conservative 75; Mismatches 192; Indels 5; Gaps 0; Query Match 94.0%; Score 2339; DB 15; Length 478;
Best Local Similarity 93.9%; Pred. No. 3.9e-119; Matches 448; Conservative 14; Mismatches 156; Indels 0; Gaps 0; Query Match 94.0%; Score 2339; DB 15; Length 478;
Best Local Similarity 93.9%; Pred. No. 3.9e-119; Matches 448; Conservative 14; Mismatches 156; Indels 0; Gaps 0;

5 SSSSPPEPLPKPXPQGPGPPIKQKDYFPGDFDEPFRTRIKNTVFRANPPGP
6 PISSDSDVVVUDALSPFLDEAKENLDTGMSLSTGNTGNCYDPSETHS
7 FISSDSRVVVVUDALSPFLDFTKVERKENDTGYPSLSTGKTCYDPSETHS
8 VIGKLFSLFLAKHDPFLPFRSLSEMPVKEKSCBKKADNSSSMPDVERL
9 VIGKLFSLFLAKHDPFLPFRSLSEMPVKEKSCBKKADNSSSMPDVERL
10 VIGKLFSLFLAKHDPFLPFRSLSEMPVKEKSCBKKADNSSSMPDVERL
11 VIGKLFSLFLAKHDPFLPFRSLSEMPVKEKSCBKKADNSSSMPDVERL
12 VIGKLFSLFLAKHDPFLPFRSLSEMPVKEKSCBKKADNSSSMPDVERL
13 VIGKLFSLFLAKHDPFLPFRSLSEMPVKEKSCBKKADNSSSMPDVERL
14 VIGKLFSLFLAKHDPFLPFRSLSEMPVKEKSCBKKADNSSSMPDVERL
15 LSDTPSKLAEAGGMDLQFLQFQAPASIGQPKFSVPUDDHTHLPFPPKGY
16 LSDTPSKLAEAGGMDLQFLQFQAPASIGQPKFSVPUDDHTHLPFPPKGY
17 LSDTPSKLAEAGGMDLQFLQFQAPASIGQPKFSVPUDDHTHLPFPPKGY
18 FSDGTPSFLAAGPGMDLQFLQFQAPASIGQPKFSVPUDDHTHLPFPPKGY
19 FSDGTPSFLAAGPGMDLQFLQFQAPASIGQPKFSVPUDDHTHLPFPPKGY
20 FSDGTPSFLAAGPGMDLQFLQFQAPASIGQPKFSVPUDDHTHLPFPPKGY
21 FSDGTPSFLAAGPGMDLQFLQFQAPASIGQPKFSVPUDDHTHLPFPPKGY
22 FSDGTPSFLAAGPGMDLQFLQFQAPASIGQPKFSVPUDDHTHLPFPPKGY
23 FSDGTPSFLAAGPGMDLQFLQFQAPASIGQPKFSVPUDDHTHLPFPPKGY
24 FSDGTPSFLAAGPGMDLQFLQFQAPASIGQPKFSVPUDDHTHLPFPPKGY
25 RKLXARYTSSSFPLDRAKKGIDTRKREKACHKULVLAGENAGYGMQFPLTLLKNGTAGE
26 RKLXARYTSSSFPLDRAKKGIDTRKREKACHKULVLAGENAGYGMQFPLTLLKNGTAGE
27 RKLXARYTSSSFPLDRAKKGIDTRKREKACHKULVLAGENAGYGMQFPLTLLKNGTAGE
28 RKLXARYTSSSFPLDRAKKGIDTRKREKACHKULVLAGENAGYGMQFPLTLLKNGTAGE
29 RKLXARYTSSSFPLDRAKKGIDTRKREKACHKULVLAGENAGYGMQFPLTLLKNGTAGE
305 DLHARKLAEPRITVKEGQUTPSLXNSLKSUYTARLIRPPRQYKADIVOS
302 DLHARKLAEPRITVKEGQUTPSLXNSLKSUYTARLIRPPRQYKADIVOS
302 DLHARKLAEPRITVKEGQUTPSLXNSLKSUYTARLIRPPRQYKADIVOS
365 HDSFPLKKGDTFGQOPAKTQKPLKQDSENFQGDPVPPREGEGLKTYWNSERETE
362 HDSFPLKKGDTFGQOPAKTQKPLKQDSENFQGDPVPPREGEGLKTYWNSERETE
425 PTAENKOPCOKPNUVILRINVEPFLRDTTETEVADPLQGPKFSLTDADYV 481
422 PTAENKOPCOKPNUVILRINVEPFLRDTTETEVADPLQGPKFSLTDADYV 478

RESULT 5
US-10-434-991-6
Sequence 6, Application US/10434991
Publication No. US2010010822A1
GENERAL INFORMATION:
APPLICANT: McCONIGLE, Brian
TITLE OF INVENTION: HYDROPEROXIDE LYASES
PCT REFERENCE: PCT/US10/434,991
CURRENT APPLICATION NUMBER: US/10434,991
CURRENT FILING DATE: 2003-05-09
NUMBER OF SEQ ID NOS: 14
SOFTWARE: Microsoft Word Version 7.0A
SEQ ID NO 6
LENGTH: 483

ORGANISM: NICOTIANA TABACUM
US-10-86-947-156

Query Match 64.9%; Score 1613.5; DB 16; Length 483;
Best Local Similarity 63.9%; Pred. No. 2.8e-148; Matches 305; Conservative 75; Mismatches 192; Indels 5; Gaps 0; Query Match 64.9%; Score 1613.5; DB 16; Length 483;
Best Local Similarity 63.9%; Pred. No. 2.8e-148; Matches 305; Conservative 75; Mismatches 192; Indels 5; Gaps 0;

5 SSSSPPEPLPKPXPQGPGPPIKQKDYFPGDFDEPFRTRIKNTVFRANPPGP
6 PISSDSDVVVUDALSPFLDEAKENLDTGMSLSTGNTGNCYDPSETHS
7 FISSDSRVVVVUDALSPFLDFTKVERKENDTGYPSLSTGKTCYDPSETHS
8 VIGKLFSLFLAKHDPFLPFRSLSEMPVKEKSCBKKADNSSSMPDVERL
9 VIGKLFSLFLAKHDPFLPFRSLSEMPVKEKSCBKKADNSSSMPDVERL
10 VIGKLFSLFLAKHDPFLPFRSLSEMPVKEKSCBKKADNSSSMPDVERL
11 VIGKLFSLFLAKHDPFLPFRSLSEMPVKEKSCBKKADNSSSMPDVERL
12 VIGKLFSLFLAKHDPFLPFRSLSEMPVKEKSCBKKADNSSSMPDVERL
13 VIGKLFSLFLAKHDPFLPFRSLSEMPVKEKSCBKKADNSSSMPDVERL
14 VIGKLFSLFLAKHDPFLPFRSLSEMPVKEKSCBKKADNSSSMPDVERL
15 VIGKLFSLFLAKHDPFLPFRSLSEMPVKEKSCBKKADNSSSMPDVERL
16 VIGKLFSLFLAKHDPFLPFRSLSEMPVKEKSCBKKADNSSSMPDVERL
17 VIGKLFSLFLAKHDPFLPFRSLSEMPVKEKSCBKKADNSSSMPDVERL
18 VIGKLFSLFLAKHDPFLPFRSLSEMPVKEKSCBKKADNSSSMPDVERL
19 VIGKLFSLFLAKHDPFLPFRSLSEMPVKEKSCBKKADNSSSMPDVERL
20 VIGKLFSLFLAKHDPFLPFRSLSEMPVKEKSCBKKADNSSSMPDVERL
21 VIGKLFSLFLAKHDPFLPFRSLSEMPVKEKSCBKKADNSSSMPDVERL
22 VIGKLFSLFLAKHDPFLPFRSLSEMPVKEKSCBKKADNSSSMPDVERL
23 VIGKLFSLFLAKHDPFLPFRSLSEMPVKEKSCBKKADNSSSMPDVERL
24 VIGKLFSLFLAKHDPFLPFRSLSEMPVKEKSCBKKADNSSSMPDVERL
25 VIGKLFSLFLAKHDPFLPFRSLSEMPVKEKSCBKKADNSSSMPDVERL
26 VIGKLFSLFLAKHDPFLPFRSLSEMPVKEKSCBKKADNSSSMPDVERL
27 VIGKLFSLFLAKHDPFLPFRSLSEMPVKEKSCBKKADNSSSMPDVERL
28 VIGKLFSLFLAKHDPFLPFRSLSEMPVKEKSCBKKADNSSSMPDVERL
29 VIGKLFSLFLAKHDPFLPFRSLSEMPVKEKSCBKKADNSSSMPDVERL
305 VIGKLFSLFLAKHDPFLPFRSLSEMPVKEKSCBKKADNSSSMPDVERL
302 VIGKLFSLFLAKHDPFLPFRSLSEMPVKEKSCBKKADNSSSMPDVERL
302 VIGKLFSLFLAKHDPFLPFRSLSEMPVKEKSCBKKADNSSSMPDVERL
365 VIGKLFSLFLAKHDPFLPFRSLSEMPVKEKSCBKKADNSSSMPDVERL
362 VIGKLFSLFLAKHDPFLPFRSLSEMPVKEKSCBKKADNSSSMPDVERL
368 VIGKLFSLFLAKHDPFLPFRSLSEMPVKEKSCBKKADNSSSMPDVERL
422 VIGKLFSLFLAKHDPFLPFRSLSEMPVKEKSCBKKADNSSSMPDVERL
427 VIGKLFSLFLAKHDPFLPFRSLSEMPVKEKSCBKKADNSSSMPDVERL

RE-35350
US-10-686-947-155
; Sequence 156, Application
; Publication-No. US20040151111
; GENERAL INFORMATION:
; APPLICANT: Profigen Inc

RESULT 9 114-68926
 Sequence 68926, Application US/10425114
 Publication No. US20040388801
 GENERAL INFORMATION:
 APPLICANT: LIU, Jindong
 APPLICANT: Zhou, Yihua
 APPLICANT: Kovacic, David K.
 APPLICANT: Screen, Steven B.
 APPLICANT: Tabata, Jack E.
 APPLICANT: Cao, Yongwei
 TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
 Title of Plant Invention: Plants and Uses Thereof for Plant Improvement
 FILE REFERENCE: 38-1153313B
 CURRENT APPLICATION NUMBER: US/10/425.114
 CURRENT FILING DATE: 2003-04-28
 NUMBER OF SEQ ID NOS: 73128
 SEQ ID NO: 68926
 LENGTH: 492
 TYPE: PPT
 ORGANISM: Glycine max
 FEATURE: OTHER INFORMATION: Clone ID: 700568503_FU1.pep
 US-10-425.114-68926

Query Match 62.1% Score 1545.5; DB 15; Length 478;
 Best Local Similarity 59.2%; Pred. No. 1..e-14; Matches 284; Conservative
 Matches 286; Conservative
 3 PTTSS...---ELAKKPPGKCPPLKPKDVKYQGQDDEPFRKTRKNTVFRANNPPC 56
 8 TPLQKQPMSSSKPKPKPQPSYQGPFGPMEDRUDYFQGDKKFAEAKNSTV 67
 57 RAKKPPETTSDSVVVLADSPFLDPAKCKRNLGTTGTMFLSFLFTNRTAYL 116
 68 RTNNPPDTTSSPRVIALDGVSPFLDPSKDKDWDQGTPMPSPTGTCACD 127

62 PTTSSRUVVVLADSPFLDPAKCKRNLGTTGTMFLSFLFTNRTAYL 124
 62 PTTSSRUVVVLADSPFLDPAKCKRNLGTTGTMFLSFLFTNRTAYL 121
 Db 125 VLRKTPFLPFLASHDRPFLPFLSSLSMVKLQDKESEKKEKFDNIDSMSDFVFLR 184
 Db 122 ILRQPSLFLASLKFEPFLPFLNSLHSPLDLEKLGKAGKASNSVSATFNPFLRL 181
 Qy 185 LSQPP...PSKLAKEGKPMWVFLQALASLIGKPKSVERPDVHTPLPFPVKG 243
 Db 182 LSQPP...PSKLAKEGKPMWVFLQALASLIGKPKSVERPDVHTPLPFPVKG 241
 Db 182 LSQPP...PSKLAKEGKPMWVFLQALASLIGKPKSVERPDVHTPLPFPVKG 241
 Qy 244 YKLUKAYATSSSFDPAKQGDKRCKNLVLAGPANGAKMVKLPTLKGTRG 303
 Db 242 ITRGEGTGATGPAKAKLVEGKAKBACNLVFLSPRQGQJWOFPLKINGLGL 301
 Qy 304 EDLAKKLAKEPRTVEEGGFLPAKLUKSYTEARBPVPPQGKAKENDIVQ 363
 Db 302 EGHLKQAKBRTWVQDGSVSLQDQMLTJKSVWVKRBLPAVPPQAKBQDIVE 361
 Qy 364 SHDSKPKKETTFCYQPAKQPKFDSEKFGFGRFGRGKAKYVYNSRERF 423
 Db 362 SHDAKAKTKEKMFQYQPAKQPKFDSEKFGFGRFGRGKAKYVYNSRERF 421
 Qy 424 EPPTAKKCPKQKUVTIGRNUWTFPLDQFPTVADPKQPKPKSQTAT 473
 Db 422 EPPTAKKCPKQKUVTIGRNUWTFPLDQFPTVADPKQPKPKSQTAT 476

RESULT 10
 Sequence 4, Application US/10434991
 Publication No. US2000010822A1
 GENERAL INFORMATION:
 APPLICANT: MEGONIGLE, Brian
 TITLE OF INVENTION: HYDROPEROXIDE LYES
 CURRENT APPLICATION NUMBER: US/10/434.991
 CURRENT FILING DATE: 2001-05-09
 NUMBER OF SEQ ID NOS: 14
 SEQ ID NO: 4
 LENGTH: 478
 TYPE: PPT
 ORGANISM: Glycine max
 US-10-434-991-4

Query Match 62.1% Score 1545.5; DB 15; Length 478;
 Best Local Similarity 59.8%; Pred. No. 1.3e-11; Matches 284; Conservative
 Matches 286; Conservative
 3 PTTSS...---ELAKKPPGKCPPLKPKDVKYQGQDDEPFRKTRKNTVFRANNPPC 56
 8 TPLQKQPMSSSKPKPKPQPSYQGPFGPMEDRUDYFQGDKKFAEAKNSTV 67
 57 RAKKPPETTSDSVVVLADSPFLDPAKCKRNLGTTGTMFLSFLFTNRTAYL 116
 68 RTNNPPDTTSSPRVIALDGVSPFLDPSKDKDWDQGTPMPSPTGTCACD 127

62 PTTSSRUVVVLADSPFLDPAKCKRNLGTTGTMFLSFLFTNRTAYL 124
 62 PTTSSRUVVVLADSPFLDPAKCKRNLGTTGTMFLSFLFTNRTAYL 121
 Db 125 VLRKTPFLPFLASHDRPFLPFLSSLSMVKLQDKESEKKEKFDNIDSMSDFVFLR 184
 Db 122 ILRQPSLFLASLKFEPFLPFLNSLHSPLDLEKLGKAGKASNSVSATFNPFLRL 181
 Qy 185 LSQPP...PSKLAKEGKPMWVFLQALASLIGKPKSVERPDVHTPLPFPVKG 243
 Db 182 LSQPP...PSKLAKEGKPMWVFLQALASLIGKPKSVERPDVHTPLPFPVKG 241
 Qy 244 YKLUKAYATSSSFDPAKQGDKRCKNLVLAGPANGAKMVKLPTLKGTRG 303
 Db 242 ITRGEGTGATGPAKAKLVEGKAKBACNLVFLSPRQGQJWOFPLKINGLGL 301
 Qy 304 EDLAKKLAKEPRTVEEGGFLPAKLUKSYTEARBPVPPQGKAKENDIVQ 363
 Db 302 EGHLKQAKBRTWVQDGSVSLQDQMLTJKSVWVKRBLPAVPPQAKBQDIVE 361
 Qy 364 SHDSKPKKETTFCYQPAKQPKFDSEKFGFGRFGRGKAKYVYNSRERF 423
 Db 362 SHDAKAKTKEKMFQYQPAKQPKFDSEKFGFGRFGRGKAKYVYNSRERF 421
 Qy 424 EPPTAKKCPKQKUVTIGRNUWTFPLDQFPTVADPKQPKPKSQTAT 473
 Db 422 EPPTAKKCPKQKUVTIGRNUWTFPLDQFPTVADPKQPKPKSQTAT 476

RESULT 11
 Sequence 4, Application US/10424599
 Publication No. US200403072A1
 GENERAL INFORMATION:
 APPLICANT: L'ORA, Thomas J.
 APPLICANT: Kovacic, David K.
 APPLICANT: Zhou, Yihua
 APPLICANT: Cao, Yongwei
 APPLICANT: MEGONIGLE, Brian
 TITLE OF INVENTION: Plant and User Thereof For Plant Improvement
 FILE REFERENCE: 38-2153221B

428 NSNPQETPDDQCAKQVLMQCRVYVERPLVYQTEPDKVQKVGPDVTKLA 487

RESULT 14

US-10-732-923-9856

Best Local Similarity 54.6%; Pred. No. 1.6e-124; Matches 262; Conservative 83; Mismatches 125; Indels 10; Gaps 6;

QY
5 SSSSPB--LPLKPIPGCVGPPFLGLPICKDRYDFYFQGRDEFFRSRITKYNSTVFRANMP 61

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163

121 -REUSUT VUOTELI SITÄ, SAPOHDETTI, PRESSI, SEMEVIK, EDKIL, SRKKKI, IADFNIS, ISDMSFDDY 180

DB : PKHALLKOLMELLIKSSRAAHVISEFHASYKELPHALLENLAEGK-ASPGDANDOAAFPN 222

8Y VPRLLSDGTP-DSKLAAGPOMPDLWLFOLAPLASIGLPLKPSVFPEDLVHTIPLPPFP 239

DB 223 LSRSLFNSNPADTKLGLDGPKIVQKWKVLFQIGPILRGLGPQP---LEESTIRTRFLRPPSL 279

QY
240 VKSGYRKLYBAPYSSSGSFLDBAEKOGIDREKACHNVLFLAGENAYGGMMKVLPPTLLKV 299

Db 280 IKKYORLYDPYBSSGLVLDABAERLIGITRDEACHNLLFATCFFNSGGMILKPFENVLUWI 339

THE JOURNAL OF CLIMATE

THE JOURNAL OF CLIMATE VOL. 17, NO. 11, NOVEMBER 2004 459

419 EDEUTURPTAENKOCPEKONI VIT, IGRIMVURFFLRYDDETEVADPLIGPAVKFKSLITRAT 478

D_b
B_b
460 GPETEESPPTLGNKOCAGKDFVTLVSLRFLVVEFLRYDSFELIOVGTSPLAGSSVTITSKRAA 519

Job time : 170 secB